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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,204	05/04/2006	Jeroen Gijzen	US030417	2760
	7590 12/17/200 LLECTUAL PROPER	EXAMINER		
P.O. BOX 3001		CARTER, WILLIAM JOSEPH		
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2875	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Asticus Occurrence		10/578,204	GIJZEN ET AL.				
Office Action Su	mmary	Examiner	Art Unit				
		WILLIAM J. CARTER	2875				
The MAILING DATE of t Period for Reply	his communication app	ears on the cover sheet with the	correspondence ad	ddress			
WHICHEVER IS LONGER, FI - Extensions of time may be available und after SIX (6) MONTHS from the mailing - If NO period for reply is specified above - Failure to reply within the set or extende	ROM THE MAILING DA ler the provisions of 37 CFR 1.1: date of this communication. the maximum statutory period v d period for reply will, by statute, an three months after the mailing	IS SET TO EXPIRE 3 MONTH ATE OF THIS COMMUNICATIO (36(a). In no event, however, may a reply be tivill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE date of this communication, even if timely file	N. mely filed the mailing date of this of the (35 U.S.C. § 133).	•			
Status							
1) Responsive to commun	cation(s) filed on 25 S	entember 2008					
2a) This action is FINAL .		action is non-final.					
'	<i>'</i> —		osecution as to the	e merite is			
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance wi	tir the practice diluci z	x parte quayle, 1000 0.D. 11, 4	00 O.O. 210.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-21</u> is/are per	ding in the application.						
4a) Of the above claim(s	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are reje							
7) Claim(s) is/are ol							
8) Claim(s) are subj	-	r election requirement					
	out to rectriction and/o	olocion roquiromonic.					
Application Papers							
9)☐ The specification is object	cted to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>04 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Trib outrol declaration		ammor. Noto the attached office		10 102.			
Priority under 35 U.S.C. § 119							
a) All b) Some * c) 1. Certified copies o 2. Certified copies o 3. Copies of the cert application from t	None of: f the priority documents f the priority documents ified copies of the prior ne International Bureau	s have been received in Applicat ity documents have been receiv	ion No ed in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-89) 2) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s Paper No(s)/Mail Date	wing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate				

DETAILED ACTION

Claim Objections

Claim 11 is objected to because of the following informalities:

In claim 11, line 5, "the created vortex" lacks antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9 and 11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basey (2002/0141188) in view of Takahashi et al. (6,227,686).

With respect to claims 1 and 5, Basey teaches a lamp assembly (10), comprising: a reflector (12) having an opening defined by an upper rim and a concave reflective surface surrounded by the upper rim (Fig. 4); an illumination element (34) mounted within the opening of the reflector (Fig. 4); an air guide conduit (14) having air conducting walls (28) that extend for a substantial length in a direction around the upper rim of the reflector (Fig. 4), the air guide conduit having an air inlet (left side of items 28 in Fig. 4) and having an air outlet (right side of items 28 in Fig. 4) into the opening of the reflector (Fig. 4); and a blower (paragraph 12) to the air inlet of the air guide conduit (paragraph 12 and Fig. 4). Basey does not explicitly teach the blower operatively

connected to the air inlet and the concave reflective surface defines a parabolic or elliptical opening in the reflector. Takahashi, also drawn to lamp assemblies, teaches a blower (6) operatively connected to the air inlet (Fig. 1) and the concave reflective surface defines a parabolic or elliptical opening in the reflector (column 2, lines 24-29). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use the blower and reflector of Takahashi in the lamp assembly of Basey, in order to provide a lamp assembly that can reduce the risk of rupture of the illumination element and degradation of light emitting property and can safely be replaced even if the illumination element is ruptured (column 1, lines 36-40).

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As for claim 2, Basey teaches the air outlet (right side of items 28 in Fig. 4) of the air guide conduit (14) has an air conducting inner side wall (28) that extends into an inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 3, Basey teaches the air outlet (right side of items 28 in Fig. 4) extends circumferentially adjacent the inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 4, Basey teaches the air outlet is defined between the upper rim of the reflector and the inner side wall of the air guide conduit (Fig. 4).

As for claim 6, Basey teaches the air guide conduit (14) circumferentially overlaps and extends into the opening in the reflector (Fig. 4).

As for claim 7, Basey teaches the air outlet (right side of items 28) is located at the circumferential overlap between the air guide conduit and the opening in the reflector (Fig. 4).

As for claim 8, Basey teaches the opening in the reflector faces towards an optical modulator of a projection display device (paragraph 12) and wherein the air outlet is configured to direct air out of the reflector in a direction towards the optical modulator (it is seen in Fig. 4 that air travels to the bottom of the reflector then out through item 32 which is located at the top of the reflector which is in a direction of the optical modulator).

As for claim 9, Basey teaches the air conducting walls comprise an air conducting outer wall (20 and 22) extending beyond (vertically beyond) and circumferentially around an outer periphery of the upper rim of the reflector (Fig. 4), and an inner side wall (24 and 26) extending circumferentially around an inner periphery of the upper rim of the reflector (Fig. 4).

As for claim 11, Basey further teaches the cooling means (paragraph 12) for creating a vortex and introduces the created vortex tangentially into the opening such that the created vortex travels down the concave reflective surface of the reflector (Fig. 4).

As for claim 12, Basey teaches the illumination element (34) is coaxially mounted within the opening of the reflector (Fig. 4), and wherein said cooling means (paragraph 12) introduces the vortex into the opening such that the vortex is reflected from a bottom of the concave reflective surface back towards the upper rim of the reflector (Fig. 4).

As for claims 13-15, Basey further teaches cooling means (paragraph 12) introduces the vortex into the opening such that the portion of the vortex which is

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reflected back towards the upper rim is coaxially contained within the portion of the vortex which travels down the concave reflective surface of the reflector (Fig. 4).

As for claims 16-20, Basey and Takahashi teaches all of the disclosed elements, as discussed above, thus the method is inherently taught.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Basey and Takahashi as applied to claim 9 above, and further in view of Glowach, SR. et al. (2001/0030865).

With respect to claim 10, Basey and Takahashi teach all of the claimed element, as discussed above, except for explicitly teaching an inner side wall partially extends into the opening and is spaced from the inner periphery of the upper rim to define the air outlet there between. Glowach, also drawn to lamp assemblies, teaches an inner side wall (47) partially extends into an opening (Fig. 3) and is spaced from the inner periphery of the upper rim to define the air outlet there between (Fig. 3). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use the inner wall orientation of Glowach in the lamp assembly of Basey, in order to assist in directing air to the face of the lamp (paragraph 34).

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Basey and Takahashi as applied to claim 1 above, and further in view of Romano et al. (5,626,416).

With respect to claim 21, Basey and Takahashi teach all of the claimed elements, as discussed above, except for explicitly teaching the substantial length of at least one of the air conducting inner side walls extends more than half-way around the upper rim

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of the reflector. Romano, also drawn to cooled lamp assemblies, teaches a substantial length of at least one air conducting inner side walls (space between 18 and 20) extends more than half-way around an upper rim of the reflector (Figs. 2 and 3). It would have been obvious to one of ordinary skill in the art, at the time of the invention, to use the substantial length of Romano with the air conducing inner side walls of Basey, in order to cool the reflector and the lamp (column 2, line 66-column 2, line 12)

Response to Arguments

Applicant's arguments filed 25 September 2008 have been fully considered but they are not persuasive. The Applicant argues that the air guide conduit (14) of Basey does not extend for a substantial length in a direction around the upper rim of the reflector (12). But as clearly shown in Fig. 4, each air guide conduit does in fact cover a substantially length of the upper rim of the reflector (12), so as broadly as claim 1 is worded, Basey reads on this element. In claim 21, the Applicant has more clearly claimed this element, and the examiner has applied a new reference (Romano).

The Applicant further argues that Basey does not show "creating a vortex and introducing the vortex tangentially into the opening" or "introducing the created vortex tangentially into the opening." As is clearly shown in Fig. 4, the air is already being curved into a vortex before it is introduced into the reflector.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM J. CARTER whose telephone number is (571)272-0959. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571)272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sandra L. O'Shea/ Supervisory Patent Examiner, Art Unit 2875

wjc 12/9/08